

WHAT IS CLAIMED IS:

1. An apparatus, comprising:
 - 2 a processor;
 - an application program executable by said processor that requires
 - 4 use of a first number of waveforms;
 - a waveform table comprising a second number of waveform table
 - 6 entries for storing waveforms for use by said application program, wherein
 - said first number exceeds said second number;
 - 8 an application policy comprising waveform sequencing information
 - specific to said application program;
 - 10 a dynamic waveform manager that monitors execution of said
 - application program, accesses said application policy to determine which of
 - 12 said first number of waveforms are next required by said application
 - program, and loads one or more of said first number of waveforms into a
 - 14 corresponding respective one or more of said second number of waveform
 - table entries in said waveform table.
2. An apparatus in accordance with claim 1, wherein:
 - 2 said dynamic waveform manager receives indication of a last use by
 - said application program of a completed one of said one or more of said first
 - 4 number of waveforms that are loaded into said corresponding respective one
 - or more of said second number of waveform table entries in said waveform
 - 6 table, accesses said application policy to select a next waveform still to be
 - used by said application program from said plurality of waveforms that are
 - 8 not currently loaded into one of said limited number of waveform table
 - entries, and replaces said completed one of said loaded waveforms with said
 - 10 selected next waveform in said one of said limited number of waveform table
 - entries corresponding to said completed one of said loaded waveforms.
3. An apparatus in accordance with claim 1, wherein:
 - 2 said dynamic waveform manager retrieves said one or more of said
 - first number of waveforms to be loaded into said corresponding respective
 - 4 one or more of said second number of waveform table entries in said

6 waveform table before said application program requires said one or more of
said first number of waveforms.

4. An apparatus in accordance with claim 1, further comprising:
2 an application analyzer which accesses said application program to
determine said waveform sequencing information specific to said application
4 program and to generate said application policy.

5. An apparatus in accordance with claim 1, wherein said application
2 policy comprises indication of first use and of last use by said application
program of each of said first number of waveforms to be used by said
4 application program.

6. An apparatus in accordance with claim 5, wherein:
2 said dynamic waveform manager loads said first number of
waveforms to be used by said application program in order of first use by
4 said application program.

7. An apparatus in accordance with claim 1, further comprising:
2 a memory for storing said first number of waveforms that is
independent of said waveform table.

8. A method for dynamically managing loading of a plurality of
2 waveforms to a waveform table characterized by a limited number of
waveform table entries during execution of an application program, said
4 plurality of waveforms being greater in number than said limited number of
waveform table entries, said method comprising:
6 determining a subset of said plurality of waveforms to be used first by
said application program;
8 loading of each of said subset of said waveforms to a respective one
of said limited number of waveform table entries;
10 receiving indication of a last use by said application program of a
completed one of said loaded waveforms loaded at a corresponding one of
12 said limited number of waveform table entries;

selecting a next waveform still to be used by said application program
14 from said plurality of waveforms that are not currently loaded into one of said
limited number of waveform table entries;
16 replacing said completed one of said loaded waveforms with said
selected next waveform in said one of said limited number of waveform table
18 entries corresponding to said completed one of said loaded waveforms.

9. A method in accordance with claim 8, comprising:
2 repeating said receiving step through said replacing step until all of
said plurality of waveforms have completed last use or are currently loaded
4 into one of said limited number of waveform table entries.

10. A method in accordance with claim 8, wherein said selecting step
2 and said replacing step are performed prior to requirement of said selected
next waveform by said application program.

11. A method in accordance with claim 8, further comprising:
2 prior to execution of said application program, accessing said
application program to determine said waveform sequencing information
4 specific to said application program; and
generating said application policy based on said waveform
6 sequencing information specific to said application program.

12. A method in accordance with claim 11, wherein said waveform
2 sequencing information specific to said application program comprises:
indication of first use and of last use by said application program of
4 each of said plurality of waveforms to be used by said application program.

13. A method in accordance with claim 12, wherein said step for
2 determining said subset of said plurality of waveforms to be used first by said
application program comprises:
4 accessing said application policy to obtain said indication of first use
by said application program of each of said plurality of waveforms, and

6 selecting said subset of said plurality of waveforms according to order of first
use by said application program.

14. A computer readable storage medium tangibly embodying
2 program instructions implementing a method for dynamically managing
loading of a plurality of waveforms to a waveform table characterized by a
4 limited number of waveform table entries during execution of an application
program, said plurality of waveforms being greater in number than said
6 limited number of waveform table entries, said method comprising the steps
of:

8 determining a subset of said plurality of waveforms to be used first by
said application program;

10 loading of each of said subset of said waveforms to a respective one
of said limited number of waveform table entries;

12 receiving indication of a last use by said application program of a
completed one of said loaded waveforms loaded at a corresponding one of
14 said limited number of waveform table entries;

selecting a next waveform still to be used by said application program
16 from said plurality of waveforms that are not currently loaded into one of said
limited number of waveform table entries;

18 replacing said completed one of said loaded waveforms with said
selected next waveform in said one of said limited number of waveform table
20 entries corresponding to said completed one of said loaded waveforms.

15. The computer readable storage medium of claim 14, comprising:
2 repeating said receiving step through said replacing step until all of
said plurality of waveforms have completed last use or are currently loaded
4 into one of said limited number of waveform table entries.

16. The computer readable storage medium of claim 14, wherein said
2 selecting step and said replacing step are performed prior to requirement of
said selected next waveform by said application program.

17. The computer readable storage medium of claim 14, further
2 comprising:
prior to execution of said application program, accessing said
4 application program to determine said waveform sequencing information
specific to said application program; and
6 generating said application policy based on said waveform
sequencing information specific to said application program.

18. The computer readable storage medium of claim 17, wherein said
2 waveform sequencing information specific to said application program
comprises:
4 indication of first use and of last use by said application program of
each of said plurality of waveforms to be used by said application program.

19. The computer readable storage medium of claim 18, wherein said
2 step for determining said subset of said plurality of waveforms to be used
first by said application program comprises:
4 accessing said application policy to obtain said indication of first use
by said application program of each of said plurality of waveforms, and
6 selecting said subset of said plurality of waveforms according to order of first
use by said application program.